



# 1998 Toxics Release Inventory

# ARKANSAS

## Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	31,111,561	3,368,165	34,479,726
Air Emissions	25,858,289	1,296,374	27,154,663
Surface Water Discharges	1,820,349	20,378	1,840,727
Underground Injection Class I Wells	1,172,182	0	1,172,182
Underground Injection Class II-V Wells	5	0	5
On-site Land Releases to RCRA Subtitle C Landfills	169,622	22,800	192,422
Other On-site Land Releases	2,091,114	2,028,613	4,119,727
Off-site Releases (Transfers Off-site to Disposal)*	4,321,761	213,748	4,535,509
<b>Total On- and Off-site Releases</b>	<b>35,433,322</b>	<b>3,581,913</b>	<b>39,015,235</b>
Recycled On-site	307,082,125	417,862	307,499,987
Recycled Off-site	45,083,148	434,534	45,517,682
Energy Recovery On-site	31,483,664	3,164,825	34,648,489
Energy Recovery Off-site	6,312,538	4,402,565	10,715,103
Treated On-site	120,250,468	25,636,877	145,887,345
Treated Off-site**	1,540,244	68,112	1,608,356
Quantity Released On- and Off-site***	47,275,247	3,820,057	51,095,304
<b>Total Production-related Waste Managed</b>	<b>559,027,434</b>	<b>37,944,832</b>	<b>596,972,266</b>
<b>Total Non-production-related Waste Managed</b>	<b>4,106,494</b>	<b>122</b>	<b>4,106,616</b>

## Transfers Off-site for Further Waste Management/Disposal

Recycling	43,374,220	429,860	43,804,080
Energy Recovery	7,585,629	4,408,584	11,994,213
Treatment	2,022,827	68,135	2,090,962
Publicly Owned Treatment Works (POTWs)	173,203	0	173,203
Metals and Metal Compounds*	21,895	0	21,895
Non-metal TRI Chemicals**	151,308	0	151,308
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	19,610,539	441,005	20,051,544
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>72,766,418</b>	<b>5,347,584</b>	<b>78,114,002</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

\*\*\*\* Transfers reported without a valid waste management code.

## For More Information . . .

### State Contact:

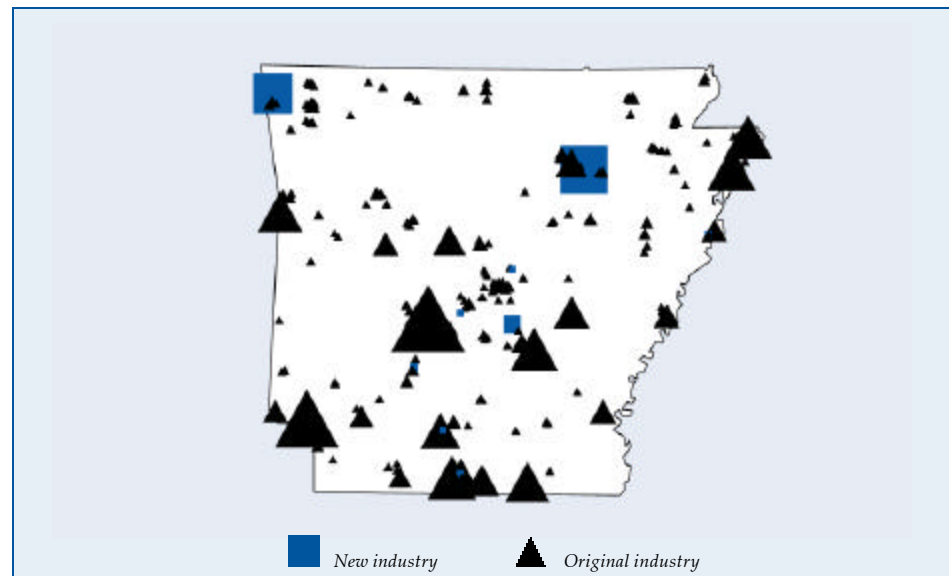
Bob Johns  
(501) 703-9789  
Fax: (501) 703-9754

### EPA Regional Contact:

Warren Layne  
(214) 665-8013  
Fax: (214) 665-6762

### To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Arkansas. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

## State/TRI Data

Population	2,538,303
Square Miles	52,075
Total Facilities	405
Total Forms	1,464
Form As	218

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	23	46	33
Pounds	35,433,322	3,581,913	39,015,235
<b>National Rank for Total On-site Releases**</b>			
Rank	22	46	33
Pounds	31,111,561	3,368,165	34,479,726
<b>National Rank for Total Releases within State**</b>			
Rank	23	45	33
Pounds	34,544,732	4,310,665	38,885,397
<b>National Rank for Production-related Waste Managed</b>			
Rank	15	29	23
Pounds	559,027,434	37,944,832	596,972,266

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1998 Toxics Release Inventory

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## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7440-66-6	Zinc (fume or dust)	104,466	315	0	11,358	9,222,147	9,338,286	27,000	29,635	9,192,512
67-56-1	Methanol	4,609,400	193,623	636,648	18,485	138,908	5,597,064	14,840	4,600	134,312
7664-41-7	Ammonia	4,768,478	135,810	0	15,876	4,167	4,924,331	0	4,167	0
—	Zinc compounds	82,899	65,715	3,329	226,971	4,190,827	4,569,741	159,709	452,487	3,738,340
110-54-3	n-Hexane	2,341,347	0	0	5	5	2,341,357	0	5	0
108-88-3	Toluene	2,148,811	259	47,426	0	3,231	2,199,727	192	782	3,169
1332-21-4	Asbestos (friable)	250	0	0	0	1,929,600	1,929,850	0	1,929,600	0
75-15-0	Carbon disulfide	1,925,006	250	0	0	0	1,925,256	0	0	0
—	Manganese compounds	20,306	218,345	0	615,886	555,527	1,410,064	316	140,627	414,900
7439-92-1	Lead	20,547	11	0	33,386	1,348,103	1,402,047	185	3,464	1,344,639

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

## On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Barium compounds	51,888	12,682	0	1,896,650	7,549	1,968,769	169,817	728	6,821
7664-39-3	Hydrogen fluoride	669,045	0	0	0	18	669,063	0	0	18
7647-01-0	Hydrochloric acid	422,885	0	0	0	0	422,885	0	0	0
—	Zinc compounds	5,438	1,847	0	48,113	126,744	182,142	40,038	19	126,725
7664-93-9	Sulfuric acid	96,830	0	0	0	0	96,830	0	0	0
—	Copper compounds	5,005	3,025	0	56,681	4,954	69,665	11,006	25	4,929
—	Lead compounds	4,163	9	0	0	55,921	60,093	48,588	0	55,921
—	Manganese compounds	2,745	2,287	0	31,851	824	37,707	285,000	25	799
—	Selenium compounds	1	0	0	0	34,159	34,160	21,236	0	34,159
—	Chromium compounds	1,441	115	0	10,916	21,432	33,904	75,104	9	21,423

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1998 Toxics Release Inventory

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### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
U.S. Vanadium Corp., Hot Springs, Garland	1,349,700	27,047	0	0	0	685,190	2,061,937	0	0
Georgia-Pacific Ashdown Ops., Ashdown, Little River	1,100,704	271,269	0	0	0	364,152	1,736,125	0	0
Terra Nitrogen Co. L.P., Blytheville, Mississippi	1,143,150	117,325	0	0	0	765	1,261,240	0	0
Great Lakes Chemical Corp. — Central Plant, El Dorado, Union	154,584	0	1,106,049	0	0	0	1,260,633	0	59,899
Viskase Corp., Osceola, Mississippi	1,231,005	18,250	0	0	0	0	1,249,255	0	0
International Paper Co., Pine Bluff, Jefferson	1,144,610	16,255	0	0	0	43,050	1,203,915	0	0
Whirlpool Corp., Fort Smith, Sebastian	1,135,276	0	0	0	0	0	1,135,276	750	330
Georgia-Pacific Crossett Paper Ops., Crossett, Ashley	667,421	168,788	0	0	0	285,171	1,121,380	0	0
International Paper Co. Camden Facility, Camden, Ouachita	954,729	18,376	0	0	0	1,280	974,385	0	0
Columbian Chemicals Co., El Dorado, Union	870,000	0	0	0	0	0	870,000	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases * Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Energy — Independence Steam Electric Station, Newark, Independence	423,645	4,667	0	0	0	1,186,211	1,614,523	404	0
Flint Creek Power Plant, Gentry, Benton	434,817	6,410	0	0	0	842,400	1,283,627	0	0
Entergy — White Bluff Generating Plant, Redfield, Jefferson	390,209	9,252	0	0	0	0	399,461	408	0
Williams West Memphis Terminal, West Memphis, Crittenden	24,216	0	0	0	0	0	24,216	0	0
Reynolds Metals Co. Gum Springs Plant, Gum Springs, Clark	11	0	0	0	22,800	0	22,811	0	5
Environmental Sys. Co., El Dorado, Union	18,799	49	0	0	0	0	18,848	1,524	438,564
Rineco, Benton, Saline	3,682	0	0	0	0	0	3,682	0	0
Van Waters & Rogers Inc., Jacksonville, Pulaski	985	0	0	0	0	0	985	0	0
Arkansas Electric Coop. Corp., McClellan Generating Station, Camden,	10	0	0	0	0	2	12	0	100

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1998 Toxics Release Inventory

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### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility/ City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Nucor-Yamato Steel Co., Blytheville, Mississippi	2,318,116	824,264	0	0	0	0	9,059,480	12,201,860	2,853,466
Nucor Steel, Arkansas Plant, Blytheville, Mississippi	2,618,600	10,014,900	0	0	0	0	3,974,077	16,607,577	5,232
U.S. Vanadium Corp., Hot Springs, Garland	1,466,000	0	0	0	0	0	2,061,900	3,527,900	0
Federal Mogul Friction Prods., Manila, Mississippi	0	0	0	0	0	0	1,929,700	1,929,700	0
Great Lakes Chemical Corp. — Central Plant, El Dorado, Union	0	0	0	0	0	0	1,320,532	1,320,532	0
Terra Nitrogen Co. L.P., Blytheville, Mississippi	500,000	23,000	0	0	300,000	0	1,308,700	2,131,700	0
Georgia-Pacific Ashdown Ops., Ashdown, Little River	15,000	0	4,001,500	4,200	25,107,420	0	1,302,808	30,430,928	0
Viskase Corp., Osceola, Mississippi	0	0	0	0	0	0	1,234,005	1,234,005	0
International Paper Co., Pine Bluff, Jefferson	0	0	33,900	0	12,679,901	0	1,203,925	13,917,726	0
Whirlpool Corp., Fort Smith, Sebastian	500,000	0	0	58,620	44,200	7,030	1,133,781	1,743,631	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility/ City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Energy - Independence Steam Electric Station, Newark, Independence	0	0	0	0	0	0	1,614,927	1,614,927	8
Flint Creek Power Plant, Gentry, Benton	0	0	0	0	72,900	0	1,293,110	1,366,010	0
Environmental Sys. Co., El Dorado, Union	400,082	434,534	3,164,825	1,170,622	25,303,977	68,077	460,317	31,002,434	0
Entergy- White Bluff Generating Plant, Redfield, Jefferson	0	0	0	0	0	0	399,866	399,866	10
Williams West Memphis Terminal, West Memphis, Crittenden	17,780	0	0	0	0	0	24,216	41,996	0
Reynolds Metals Co. Gum Springs Plant, Gum Springs, Clark	0	0	0	0	260,000	35	22,800	282,835	0
Rineco, Benton, Saline	0	0	0	3,231,943	0	0	3,828	3,235,771	2
Van Waters & Rogers Inc., Jacksonville, Pulaski	0	0	0	0	0	0	985	985	0
Arkansas Electric Coop. Corp., McClellan Generating Station, Camden, Ouachita	0	0	0	0	0	0	8	8	102
Harcros Chemicals Inc., Little Rock, Pulaski	0	0	0	0	0	0	0	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.